Curtis Block - Phase I, Calgary, Canada

Wind Engineering Study

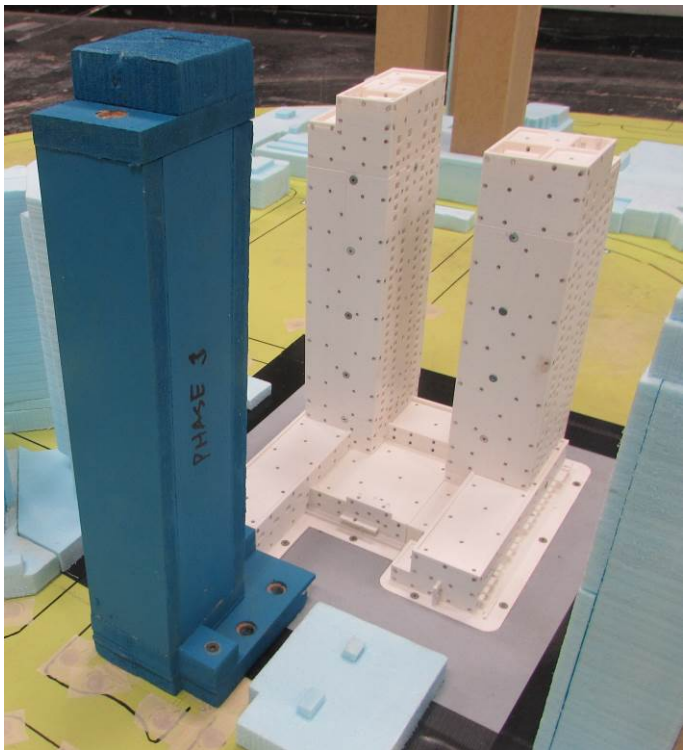

Image Credit: ONE Properties

Client	*Structural Engineer*	*Architect*
SLR Consulting (previously known as Novus Environmental)	Stantec	Arquitectonica, and DIALOG
Height	*Year Tested*	*Model Scale*
110 m and 119 m	2018	1:400

The Project

Curtis Block is located in the Beltline neighbourhood just outside of Calgary's downtown core. The site is bounded by 12 Ave SE to the north, Macleod Trail SE to the east, and 13 Ave SE to the south. The project is being developed in two phases.

Phase I of this mixed-use development consists of two residential towers (34 and 37 stories) with ground floor retail space. Phase II is under development.

The Wind Tunnel Studies

The wind engineering studies for the Curtis Block Phase I included a study of the wind-induced structural loads and responses, and local cladding pressure loads.

The study of overall structural loads and cladding pressures were carried out using a pressure model containing 703 pressure measurement locations distributed over the 2 towers.

The Boundary Layer Wind Tunnel Laboratory

Western

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